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OM nucleic - nucleic search, using sw model

Run on: March 29, 2003, 19:47:07 ; Search time 47.5859 Seconds

(without alignments)
7950.588 Million cell updates/sec

Title: US-09-988-971-1_COPY_517_684

Perfect score: 168
Sequence: 1 gccacagccgtgcccctg95.....gcgtccacggtcccaagtc 168

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: N.GeneSeq_101002: *
2: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1980.DAT: *
3: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1981.DAT: *
4: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1982.DAT: *
5: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1983.DAT: *
6: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1984.DAT: *
7: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1985.DAT: *
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9: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1987.DAT: *
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11: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1989.DAT: *
12: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1990.DAT: *
13: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1991.DAT: *
14: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1992.DAT: *
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16: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1994.DAT: *
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19: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1997.DAT: *
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21: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA1999.DAT: *
22: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA2000.DAT: *
23: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA2001A.DAT: *
24: /SID2/gcgdata/geneSeq/geneSeq-emb1/NA2002.DAT: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	168	100.0	737	24	AAI44090	Mouse MARS short isoform
2	168	100.0	786	24	AAI44089	Human modulator of DNA encoding novel
3	168	100.0	2049	23	AAST74750	Human OREY ORE750
4	166.4	99.0	837	21	AACT77202	Human CDNA encoding novel
5	166.4	99.0	1163	24	ABK61465	Human modulator of DNA encoding novel
6	124.8	74.3	1348	24	AAAL4087	Human CDNA different
7	80.8	48.1	211	23	AAST70181	Human CDNA different
8	43.6	26.0	2298	24	ABK83935	Human CDNA different
9	39	23.2	2109	22	AAAS02049	DNA encoding molecule

10	39	23.2	2665	24	ABK83738
11	39	23.2	2665	24	ABU65189
12	34.4	20.5	2032	21	AAZ46491
13	33	19.6	577	22	ABA31398
14	33	19.6	577	22	AA144415
15	33	19.6	3311	18	AAAT70377
16	33	19.6	3311	24	ABK84102
17	33	19.6	3311	24	ABK84102
18	33	19.6	6933	23	ABK64425
19	32.2	19.2	183	24	ABU65141
20	32.2	19.2	1416	24	ABU61215
21	32.2	19.2	1542	24	ABU61216
22	32.2	19.2	1926	24	ABK83940
23	32.2	19.2	2015	24	ABK83939
24	32.2	19.2	2015	24	ABU66673
25	32.2	19.2	2350	22	AAK53035
26	31.6	18.8	6855	24	AAK516827
27	31.6	18.8	48667	24	ABK51628
28	31.4	18.7	6232	13	AAQ29269
29	31.2	18.6	123	22	ABA40888
30	31.2	18.6	123	22	AA157031
31	31.2	18.6	123	22	AAK92277
32	31.2	18.6	1574	22	AAZ68794
33	31.2	18.6	1574	22	AAZ68794
34	31	18.5	3663	18	AAAT72320
35	30.8	18.3	3401	22	AAK52257
36	30.8	18.3	3401	22	AAK52257
37	30.8	18.3	3401	22	AAK52257
38	30.8	18.3	3401	22	AAK52257
39	30.8	18.3	3401	24	ABU95580
40	30.8	18.3	3401	24	ABU95580
41	30.8	18.3	3401	24	ABU95580
42	30.6	18.2	14705	23	AAK59523
43	30.4	18.1	1621	20	AAV80580
44	30.4	18.1	621	24	ABK34974
45	30.4	18.1	13336	23	ABK84672

ALIGNMENTS

RESULT 1	AAAL4090	standard; cDNA; 737 BP.
ID	AAAL4090	
AC	AAAL4090;	
XX		
DT	03-OCT-2002	(first entry)
XX		
DE	Mouse MARS short isoform protein coding sequence.	
XX		
KW	Mouse; gene; ss; gene therapy; modulator of antigen receptor signaling;	
KW	MARS; tumor suppressor gene; Src-like adaptor protein; SLAP;	
KW	myeloid malignancy; acute myelogenous leukemia; autoimmune disorder;	
KW	immunosuppression; myeloproliferative disorder; breast cancer.	
XX		
OS	Mus sp.	
XX		
FT	Key	Location/Qualifiers
FT	CDS	1..633
FT		/*tag= a
FT		/product= "Mouse MARS short isoform protein"
PN	MO200242452-A2.	
XX		
PD	30-MAY-2002.	
XX		
PF	26-NOV-2001; 2001WO-CA01662.	
XX		
PR	27-NOV-2000; 2000CA-2324663.	
XX		
PA	(HOSP-) HOSPITAL FOR SICK CHILDREN.	
XX		

PI Mcglade JC, Loreto MP;
 XX
 DR WPI; 2002-566564/60.
 DR P-PSDB; AAO15458.
 XX
 PT New isolated modulator of antigen receptor signaling protein or its
 PT fragment, useful for treating malignant disorders such as myeloid
 PT malignancies, autoimmune disorders and myeloproliferative disorders -
 XX
 PS Claim 9; Page 77; 110pp; English.
 XX
 CC The invention comprises the amino acid and coding sequences of modulator
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
 CC putative tumour suppressor gene and exhibits structural and sequence
 CC similarity to the Scr-like adaptor protein (SIAP). The MARS DNA and
 CC protein sequences of the invention are useful for the treatment of
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
 CC disorders, immunosuppression, myeloproliferative disorders and
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.
 CC breast cancer). The present cDNA sequence encodes a mouse MARS protein.
 XX
 SQ Sequence 737 BP; 152 A; 219 C; 218 G; 148 T; 0 other;
 Query Match 100.0%; Score 168; DB 24; Length 737;
 Best Local Similarity 100.0%; Pred. No. 2.4e-40;
 Matches 168; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCACAGCCGTTGGCCCTGGGCAAGTTTCCCGGCAAGTGGCCCGCGAGCTGTCTGAGA 60
 DB 103 GCCACAGCCGTTGGCCCTGGGCAAGTTTCCCGGCAAGTGGCCCGCGAGCTGTCTGAGA 162
 QY 61 CTCGGGGAGCATTGACCATCTGCTCTGAGATGAGAGACTGTGACGCTGTCTGAA 120
 DB 163 CTCGGGGAGCATTGACCATCTGCTCTGAGATGAGAGACTGTGACGCTGTCTGAA 222
 QY 121 GTCTCAGGCAAGATTAACATCCCAAGCTCCAGCTGGCCAAAGTC 168
 DB 223 GTCTCAGGCAAGATTAACATCCCAAGCTCCAGCTGGCCAAAGTC 270

RESULT 2
 AAL44089
 ID AAL44089 standard; cDNA; 786 BP.
 XX
 AC AAL44089;
 XX
 DT 03-OCT-2002 (first entry)
 XX
 DE Human modulator of antigen receptor signalling protein coding sequence.
 XX
 KW Human; gene; ss; gene therapy; modulator of antigen receptor signalling;
 KW MARS; tumour suppressor gene; Scr-like adaptor protein; SIAP;
 KW myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;
 KW immunosuppression; myeloproliferative disorder; breast cancer.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..786
 FT /*tag= a
 FT /product= "Human MARS protein"
 XX
 PN WO200242452-A2.
 XX
 PD 30-MAY-2002.
 XX
 PF 26-NOV-2001; 2001WO-CA01662.
 XX
 PR 27-NOV-2000; 2000CA-2324663.
 XX
 PA HOSP-1 HOSPITAL FOR SICK CHILDREN.
 XX
 PI Mcglade JC, Loreto MP;

XX
 DR WPI; 2002-566564/60.
 DR P-PSDB; AAO15457.
 XX
 PT New isolated modulator of antigen receptor signaling protein or its
 PT fragment, useful for treating malignant disorders such as myeloid
 PT malignancies, autoimmune disorders and myeloproliferative disorders -
 XX
 PS Claim 12; Page 75; 110pp; English.
 XX
 CC The invention comprises the amino acid and coding sequences of modulator
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
 CC putative tumour suppressor gene and exhibits structural and sequence
 CC similarity to the Scr-like adaptor protein (SIAP). The MARS DNA and
 CC protein sequences of the invention are useful for the treatment of
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
 CC disorders, immunosuppression, myeloproliferative disorders and
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.
 CC breast cancer). The present cDNA sequence encodes a human MARS protein.
 XX
 SQ Sequence 786 BP; 162 A; 234 C; 231 G; 159 T; 0 other;
 Query Match 100.0%; Score 168; DB 24; Length 786;
 Best Local Similarity 100.0%; Pred. No. 2.4e-40;
 Matches 168; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCACAGCCGTTGGCCCTGGGCAAGTTTCCCGGCAAGTGGCCCGCGAGCTGTCTGAGA 60
 DB 103 GCCACAGCCGTTGGCCCTGGGCAAGTTTCCCGGCAAGTGGCCCGCGAGCTGTCTGAGA 162
 QY 61 CTCGGGGAGCATTGACCATCTGCTCTGAGATGAGAGACTGTGACGCTGTCTGAA 120
 DB 163 CTCGGGGAGCATTGACCATCTGCTCTGAGATGAGAGACTGTGACGCTGTCTGAA 222
 QY 121 GTCTCAGGCAAGATTAACATCCCAAGCTCCAGCTGGCCAAAGTC 168
 DB 223 GTCTCAGGCAAGATTAACATCCCAAGCTCCAGCTGGCCAAAGTC 270

RESULT 3
 AAS74750
 ID AAS74750 standard; cDNA; 2049 BP.
 XX
 AC AAS74750;
 XX
 DT 13-FEB-2002 (first entry)
 XX
 DE DNA encoding novel human diagnostic protein #10554.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001WO-US08631.
 XX
 PR 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX
 PA (HSE-) HYSBO INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 DR P-PSDB; ABG10563.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess

Qy 121 GTCTCAGCAGAGATATACATCCAGCGCTCCAGCGCCAAAGTC 168
|||
Db 501 GTCTCAGCAGAGATATACATCCAGCGCTCCAGCGCCAAAGTC 548

RESULT 7

AA570181
ID AA570181 standard; cDNA; 211 BP.

AC AA570181;

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #5985.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

PN W0200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PS 23-AUG-2000; 2000US-0649167.

PA (HYSE-) HYSEQ INC.

PI Dmanac RT, Liu C, Tang YF,

DR WPI; 2001-639362/73.

PT P-RSDB; ABG05994.

PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensic, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity

PS Claim 1; SEQ ID No 5985; 103bp; English.

CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridization probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostic, forensic, gene mapping, identification of mutations in
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. A564197-A594564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

CC Sequence 211 BP; 50 A; 51 C; 72 G; 38 T; 0 other;

Qy Query Match 48.1%; Score 80.8; DB 23; Length 211;

CC Best Local Similarity 97.6%; Pred. No. 1.3e-14;

CC Matches 82; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 85 TCTGAGATGAGAGCTGAGCGTCTGCTGTAAGTCTCAGCAGAGATATACATC 144
|||

Db 16 TCCAAGATGAGAGCTGAGCGTCTGCTGTAAGTCTCAGCAGAGATATACATC 75

Qy 145 CCCAGCGTCCAGCGTCCAAAGTC 168
|||

Db 76 CCCAGCGTCCAGCGTCCAAAGTC 99

RESULT 8

ABK83935
ID ABK83935 standard; cDNA; 2298 BP.

AC ABK83935;

DT 14-AUG-2002 (first entry)

DE Human cDNA differentially expressed in granulocytic cells #506.

KW Human; ss; granulocytic cell; DNA chip; bacterial infection;

KW viral infection; parasitic infection; protozoal infection;

KW fungal infection; sterile inflammatory disease; psoriasis;

KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;

KW cardiac reperfusion injury; renal reperfusion injury; ARDS;

KW adult respiratory distress syndrome; inflammatory bowel disease;

KW Crohn's disease; ulcerative colitis; periodontal disease;

KW granulocyte activation; chronic inflammation; allergy.

OS Homo sapiens.

PN W0200228999-A2.

PD 11-APR-2002.

PF 03-OCT-2001; 2001WO-US30821.

PR 03-OCT-2000; 2000US-237189P.

PA (GENE-) GENE LOGIC INC.

PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;

DR WPI; 2002-435328/46.

PT Detecting granulocyte activation by detecting differential expression
PT of genes associated with granulocyte activation, which serves as
PT diagnostic markers that is useful for monitoring disease states and
PT drug toxicity

PS Claim 1; SEQ ID No 506; 114bp; English.

CC The invention relates to detecting (M1) granulocyte (GC) activation
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC DNA chip analysis as given in the specification, and comparing
CC the expression level to an expression level in an unactivated
CC GC, where differential expression of Gs is indicative of GCA.
CC Also included are modulating (M2) GCA by contacting GC with an agent
CC that alters the expression of at least one gene in Gs; (2) screening (M3)
CC for an agent capable of modulating GCA or an inflammation (especially
CC chronic) in a tissue, an allergic response in a subject, exposure of a
CC subject to a pathogen or sterile inflammatory disease using the
CC gene expression profile; (3) detecting (M4) an inflammation (especially
CC chronic) in a tissue, an allergic response in a subject, exposure of a
CC subject to a pathogen or sterile inflammatory disease, by detecting the
CC level of expression in a sample of the tissue of gene(s) from Gs, where
CC the level of expression of the gene is indicative of inflammation;
CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
CC an allergic response in a subject, exposure of a subject to a pathogen
CC or sterile inflammatory disease, by contacting a tissue having
CC inflammation with an agent that modulates the expression of gene(s)
CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
CC modulating GCA; M3 is useful for screening an agent capable of modulating
CC GCA preferably in an inflammation (especially chronic) in a tissue; M4 is useful for
CC detecting an inflammation (especially chronic) in a tissue, an allergic
CC response in a subject, exposure of a subject to a pathogen or sterile

CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease, also bacterial infection, viral infection,
 CC parasitic infection, protozoal infection, fungal infection and MS is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

SO Sequence 2298 BP; 645 A; 564 C; 576 G; 513 T; 0 other;

Query Match 26.0%; Score 43.6; DB 24; Length 2298;

Best Local Similarity 58.5%; Pred. No. 0.0023;

Matches 76; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

OY 39 CCGGCGGAGCTGCTGAGACTGCGGAGACCATGACCACTGCTCTGAGATGAGA 98
 DB 531 CCGGAGCACTTCTCTTTCAGAAAGAGAGAAAGTAACTCTGAGAGAGATGAGA 590
 OY 99 CTGTGAGACGCTGCTCTGAGAGCTGAGGAGAGATTAACATCCCAAGCTCAACT 158
 DB 591 ATGTGTGAGAAAGCAAAAGTCCCTTTTAACAAAAAGAGGCTTCACTCCCGCACTATGT 650
 OY 159 GGCCTAAAGTC 168
 DB 651 GGCCTAAACTC 660

RESULT 9
 AAS02049
 ID AAS02049 standard; cDNA; 2109 BP.

AC AAS02049;

DT 16-JUL-2001 (first entry)

DE DNA encoding molecule for disease detection and treatment; mdtc14.

KW Human; mdtc14; gene therapy; adenosine deaminase deficiency;
 KW ADA; severe combined immunodeficiency syndrome; cystic fibrosis;
 KW thalassemia; familial hypercholesterolaemia; haemophilia; factor VIII;
 KW factor IX; cancer; cell proliferation; parasite; human retrovirus; HIV;
 KW hepatitis B; hepatitis C; Candida albicans; Plasmodium falciparum;
 KW Paracoccidioides brasiliensis; Trypanosoma brasiliensis; ss.

OS Homo sapiens.

PN WO200123538-A2.

PD 05-APR-2001.

PF 22-SEP-2000; 2000MO-US26085.

PR 28-SEP-1999; 99US-0155565.

PR 30-NOV-1999; 99US-0168197.

PA (INCYTE) INCYTE GENOMICS INC.

PI Hodgson DM, Lincoln SE, Rusco PD, Spiro PA, Banville SC;
 PI Bratcher SR, Dufour GE, Cohen HU, Rosen BH, Shah P, Chalup MS,
 PI Hillman UL, Jones AL, Yu Y, Greenwalt LB, Panzer SR,
 PI Roseberry AM, Wright RJ, Chen W, Liu TF, Yap PE, Stockdreher TK;
 PI Amesley S, Fong WT;
 DR WPI; 2001-258131/26.

PT Purified disease treatment and detection molecule polynucleotides and
 PT polypeptides, useful for providing diagnostic assays and gene therapy -

PS Claim 1; Page 103-104; 113pp; English.

XX The sequence represents the coding sequence of molecule for disease
 XX detection and treatment, mdtc14, shown by computer analysis to be similar
 XX to Src homology domain family of proteins. The sequence may be used for
 XX somatic or germ-line gene therapy. Gene therapy may be performed to: (i)
 XX correct genetic deficiency such as in severe combined immunodeficiency
 XX syndrome associated with adenosine deaminase (ADA) deficiency, cystic
 XX fibrosis, thalassemias, familial hypercholesterolaemia and haemophilia
 XX caused by factor VIII or factor IX deficiencies; (ii) express a
 XX conditional lethal gene product (such as in the case of cancers which
 XX result from unregulated cell proliferation); (iii) express a protein
 XX which affords protection against intracellular parasites (for example,
 XX human retroviruses such as HIV, hepatitis B or C, fungal parasites such
 XX as Candida albicans and Paracoccidioides brasiliensis, and protozoal
 XX parasites such as Plasmodium falciparum and Trypanosoma brasiliensis.

SQ Sequence 2109 BP; 545 A; 538 C; 562 G; 464 T; 0 other;

Query Match 23.2%; Score 39; DB 22; Length 2109;

Best Local Similarity 54.5%; Pred. No. 0.053;

Matches 78; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

OY 25 TTCGCGGAGCTGCGCGGCGGAGCTGCTGAGACTCGGAGGCAATTACATGTC 84
 DB 504 TACCGCTCTCTGACATCAGCCCCCGATATTCGCCAGAGGAGAAAGTGGCTGATTT 563
 OY 85 TCTGAGATGAGAGACTGAGAGCTGCTGTGAGAGCTCAAGCAAGAGATTAACATC 144
 DB 564 TCTGATGAGAGGGGCTGTGGAAAGCTATTCTCTTACAGCACTGTGAGAGAGTTACATC 623
 OY 145 CCCAGGCTCCAGTGGCCAAAGT 167
 DB 624 CTTGGAATATGTGTGGCCAGAT 646

RESULT 10
 ABR83738
 ID ABR83738 standard; cDNA; 2665 BP.

AC ABR83738;

DT 14-AUG-2002 (first entry)

DE Human cDNA differentially expressed in granulocytic cells #309.

KW Human; ss; granulocytic cell; DNA chip; bacterial infection;
 KW viral infection; parasitic infection; protozoal infection;
 KW fungal infection; sterile inflammatory disease; psoriasis;
 KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
 KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
 KW adult respiratory distress syndrome; inflammatory bowel disease;
 KW Crohn's disease; ulcerative colitis; periodontal disease;
 KW granulocyte activation; chronic inflammation; allergy.

OS Homo sapiens.

PN WO200228999-A2.

PD 11-APR-2002.

PF 03-OCT-2001; 2001WO-US30821.

PR 03-OCT-2000; 2000US-237189P.

PA (GENE-) GENE LOGIC INC.

PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;

DR WPI; 2002-435328/46.

PT Detecting granulocyte activation by detecting differential expression
 PT of genes associated with granulocyte activation, which serves as

PT diagnostic markers that is useful for monitoring disease states and
 PT drug toxicity

XX Claim 1, SEQ ID No 309, 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
 CC DNA chip analysis as given in the specification, and comparing
 CC the expression level to an expression level in an unactivated
 CC GC, where differential expression of Gs is indicative of GCA.

CC Also included are modulating (M2) GA by contacting GC with an agent
 CC that alters the expression of at least one gene in Gs; (2) screening (M3)
 CC for an agent capable of modulating GCA or an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease using the
 CC gene expression profile; (3) detecting (M4) an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease, by detecting of a
 CC level of expression in a sample of the tissue of gene(s) from Gs, where
 CC the level of expression of the gene is indicative of inflammation;
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 CC or allergic response in a subject, exposure of a subject to a pathogen
 CC or sterile inflammatory disease, by contacting a tissue having
 CC inflammation with an agent that modulates the expression of gene(s)
 CC from Gs in the tissue. M1 is useful for detecting GCA. M2 is useful for
 CC modulating GA. M3 is useful for screening an agent capable of modulating
 CC GCA preferably in an inflammation in a tissue. M4 is useful for
 CC detecting an inflammation (especially chronic) in a tissue, an allergic
 CC response in a subject, exposure of a subject to a pathogen or sterile
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease; also bacterial infection, viral infection,
 CC parasitic infection, protozoal infection, fungal infection and M5 is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: the sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 2665 BP; 736 A; 617 C; 689 G; 623 T; 0 other;

Query Match 23.2%; Score 39; DB 24; Length 2665;

Best Local Similarity 54.5%; Pred. No. 0.055;

Matches: 78; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

QY 25 TTCCGCGGAGTGGCCCGCGAGCTGCTGAGACTCGGAGGACATTGACCATGTC 84
 Db 138 TACCGTCTCTGACATCAACGCCCGGATTCGCCGAGGAGAACTCGTGATTT 197

QY 85 TCTGAGATGAGACTGCTGAGCGGTGCTCTAAGTCTCAAGCAGAGATTAACATC 144
 Db 198 TCTGATGAGGGGCTGTGTGAAGCTATTCTTGTAGCAGTGTGAGAGATTAATC 257

QY 145 CCCAGGCTCCAGTGGCCCAAGT 167
 Db 258 CTTGATATATGTGTGGCCAGAT 280

RESULT 11

ABL65189

XX ABL65189 standard; DNA; 2665 BP.

XX ABL65189;

XX 15-MAY-2002 (first entry)

XX Lung cancer related gene sequence SEQ ID NO:3526.
 XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
 XX stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;

KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
 KW gene; ds.

XX Homo sapiens.

XX WO200194629-A2.

XX 13-DEC-2001.

XX 30-MAY-2001; 2001WO-US10838.

XX 05-JUN-2000; 2000US-209473P.
 XX 05-JUN-2000; 2000US-209531P.
 XX 18-SEP-2000; 2000US-23313P.
 XX 18-SEP-2000; 2000US-233617P.
 XX 20-SEP-2000; 2000US-234009P.
 XX 20-SEP-2000; 2000US-234034P.
 XX 20-SEP-2000; 2000US-234052P.
 XX 22-SEP-2000; 2000US-234509P.
 XX 22-SEP-2000; 2000US-234567P.
 XX 25-SEP-2000; 2000US-234923P.
 XX 25-SEP-2000; 2000US-234924P.
 XX 25-SEP-2000; 2000US-235077P.
 XX 25-SEP-2000; 2000US-235082P.
 XX 25-SEP-2000; 2000US-235134P.
 XX 25-SEP-2000; 2000US-235280P.
 XX 26-SEP-2000; 2000US-235637P.
 XX 26-SEP-2000; 2000US-235638P.
 XX 27-SEP-2000; 2000US-235711P.
 XX 27-SEP-2000; 2000US-235720P.
 XX 27-SEP-2000; 2000US-235840P.
 XX 27-SEP-2000; 2000US-235863P.
 XX 28-SEP-2000; 2000US-236028P.
 XX 28-SEP-2000; 2000US-236032P.
 XX 28-SEP-2000; 2000US-236033P.
 XX 28-SEP-2000; 2000US-236034P.
 XX 28-SEP-2000; 2000US-236109P.
 XX 28-SEP-2000; 2000US-236111P.
 XX 29-SEP-2000; 2000US-236842P.
 XX 29-SEP-2000; 2000US-236891P.
 XX 02-OCT-2000; 2000US-237172P.
 XX 02-OCT-2000; 2000US-237173P.
 XX 02-OCT-2000; 2000US-237278P.
 XX 02-OCT-2000; 2000US-237294P.
 XX 02-OCT-2000; 2000US-237295P.
 XX 02-OCT-2000; 2000US-237316P.
 XX 03-OCT-2000; 2000US-237425P.
 XX 03-OCT-2000; 2000US-237598P.
 XX 03-OCT-2000; 2000US-237604P.
 XX 03-OCT-2000; 2000US-237606P.
 XX 03-OCT-2000; 2000US-237608P.
 XX 01-NOV-2000; 2000US-244867P.
 XX 01-NOV-2000; 2000US-245084P.

XX (AVAL-) AVALON PHARM.

XX Young PE, Augustus M, Carter KC, Edner R, Endress G, Horrigan S;
 XX Soppet DR, Weaver Z;
 XX WPI; 2002-188264/24.

XX Screening for anti-neoplastic agent involves exposing cells to a
 XX chemical agent to be tested for anti-neoplastic activity, and
 XX determining a change in expression of a gene of a signature gene set -
 XX Claim 1; SEQ ID 3526; 44pp; English.

XX The present invention describes a method (M1) for screening for an
 XX anti-neoplastic agent. The method involves exposing cells to a chemical
 XX agent to be tested for anti-neoplastic activity, determining a change in
 XX expression of at least one gene (I) of a signature gene set, where (I)
 XX comprises a sequence (S) selected from 8447 sequences (given in ABL61664
 XX to ABL70110), or is at least 95% identical to (S), where a change in

expression is indicative of anti-neoplastic activity. (1) has cytostatic activity and can be used in gene therapy. M1 can be used for screening an anti-neoplastic agent, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a result of M1, and the data is sufficient to convey the chemical structure and/or properties of the agent. M1 can be used in the treatment of cancer such as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney, prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilms' tumour.

Sequence 2665 BP; 736 A; 617 C; 689 G; 623 T; 0 other;

Query Match 23.2%; Score 39; DB 24; Length 2665;
Best Local Similarity 54.5%; Pred. No. 0.055;

Matches 78; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

25 TTCCCGGAGGTGGCCCGGAGCTGCTGAGACTGCGGAGCCATTGACATCGTC 84
138 TACCGTCTCTGATCATGACGCCCCGATATTCGCCGAGGGAGAACTGGGTGATT 197

QY 85 TCTGAGATGAGACTGTGTGACGCTCTCTGAACTCTCAGCAGAGATTAACATC 144
Db 198 TCTGATGAGGGGGCTGTGTGAGAACTATTCTTACACTGTGTGAGAGATTACATC 257

QY 145 CCCAGCGTCCAGCTGGCCAAAGT 167
Db 258 CCGGATATGTGTGGCCAGAGT 280

RESULT 12

AAZ46491
ID AAZ46491 standard; DNA; 2032 BP.

XX AAZ46491;

AC 13-MAR-2000 (first entry)

DE PKA substrate, Src-family protein encoding DNA.

KW Protein kinase A; PKA; PKA signaling pathway; phosphorylation; cancer;

KW kinase substrate; immunosuppressive disorder; proliferative disease;

KW HIV infection; AIDS; immunodeficiency; autoimmune disease;

KW systemic lupus erythematosus; Src-family; ss.

XX Homo sapiens.

OS Homo sapiens.

FN Key

FT CDS

FT CDS

XX WO962315-A2.

XX 02-DEC-1999.

XX 27-MAY-1999; 99MO-SB01680.

XX 27-MAY-1998; 98NO-0002419.

XX 30-DEC-1998; 98US-0114240.

XX (LAUR-) LAURAS AS.

XX (JONE-) JONES E L.

XX Hanson V, Levy FO, Mustelin T, Skalhogg BS, Sundvold V, Tasken K;

XX Vang T, Altman A, Munshi A;

XX WPI; 2000-086801/07.

XX P-PSDB; AA49420.

XX Altering the activity of protein kinase signaling pathways, used for

XX creating immunosuppressive disorders, e.g. AIDS, proliferative

XX disorders, e.g. cancers or autoimmune diseases -

XX Claim 22; Page 94-95; 11pp; English.

PS The invention provides a novel method of altering the activity of the
XX protein kinase A (PKA) signaling pathway in a cell that comprises
CC altering the extent of phosphorylation of one or more PKA substrates, or
CC kinase substrates downstream in the PKA signaling pathway. Pharmaceutical
CC compositions containing a nucleic acid molecule that encodes a PKA
CC substrate, or fragment, precursor or functionally equivalent variant,
CC where the sequence is modified to alter its susceptibility to
CC phosphorylation by PKA can be used for treating a disorder exhibiting
CC abnormal PKA signaling activity, immunosuppressive disorders or
CC proliferative diseases. They can be used for treating e.g. HIV
CC infection, AIDS, common variable immunodeficiency or cancers. Conditions
CC in which upregulation of the PKA pathway is required, such as autoimmune
CC disease, e.g. systemic lupus erythematosus, may also be treated. The
CC present sequence represents a DNA sequence encoding a PKA substrate,
CC wherein the substrate is in the Src-family, preferably Lck, Fyn, Src,
CC Yes, Fgr, Lyn, Hck Blk, Yrk, c-trl, Fyk, Src-1 or Src-2.

Sequence 2032 BP; 450 A; 576 C; 584 G; 422 T; 0 other;

Query Match 20.5%; Score 34.4; DB 21; Length 2032;
Best Local Similarity 51.3%; Pred. No. 1.2; Indels 0; Gaps 0;
Matches 80; Conservative 0; Mismatches 76;

QY 11 TGGCCCTGGGAGTTCCCGGAGGTGGCCCGGAGCTGTGAGACTCGGGAGC 70
Db 251 TCGCTGCGACAGCTATGAGCCCTCTCAGCAGAGATCTGGGAGGGGAGAC 310

QY 71 CATTGACATGCTCTGAGATGAGACTGTGTGAGAGCTGTGAGACTCAGGCA 130
Db 311 CACTCCGACTCTGAGACAGAGCGGAGGTGTGAGAGCGGAGCTCCGACACGSGGCC 370

QY 131 GAGAGTATTAACATCCCGAGCGCTCAGCTGGCCAAAG 166
Db 371 AGGAGGCTTCAATCCCTTCAATTTTGGCCAAAG 406

RESULT 13

AB31398/C
ID AB31398 standard; DNA; 577 BP.

XX AB31398;

AC 23-JAN-2002 (first entry)

DE Probe #9864 for gene expression analysis in human heart cell sample.

KW Human gene expression; heart; microarray; vascular system; probe;

KW cardiovascular disease; hypertension; cardiac arrhythmia;

KW congenital heart disease; ss.

XX Homo sapiens.

OS Homo sapiens.

FN Key

FT CDS

FT CDS

XX WO200157274-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00666.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI: 2001-488897/53.
 XX Single exon nucleic acid probes for analyzing gene expression in human
 PT hearts -
 XX
 PS Claim 1; SEQ ID No 9864; 530pp; English.
 CC The present invention relates to single exon nucleic acid probes for
 CC measuring human gene expression in a sample derived from human heart. The
 CC present sequence is one such probe. The probes may be used for
 CC predicting, measuring and displaying gene expression in samples derived
 CC from the human heart via microarrays. By measuring gene expression, the
 CC probes are useful for predicting, diagnosing, grading, staging,
 CC monitoring and prognosing diseases of the human heart and vascular system
 CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
 CC congenital heart disease.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 SQ Sequence 577 BP; 105 A; 197 C; 164 G; 111 T; 0 other;
 Query Match 19.6%; Score 33; DB 22; Length 577;
 Best Local Similarity 54.5%; Pred. No. 2.4;
 Matches 66; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
 QY 11 TGGCCCTGGGAGTTCCCGGAGGTGGCCCGGAGCTGTGCTGAGACTCGGGAGC 70
 DB 234 TGACCTTGCTGTCTTTGCGGCGAGGTGGGAGCTGTGAGACTCAGGTCT 175
 QY 71 CATTGACCATGCTCTCTGAGATGAGACTGTGAGCGTCTGTGAAGTCTCAGGCA 130
 DB 174 CACCCGAGGAGTGAAGAGAGACTGTGAGTTCAAGGAGAGGCTCCGCTCAGCCA 115
 QY 131 G 131
 DB 114 G 114

RESULT 14
 AAI44415/C
 ID AAI44415 standard; DNA; 577 BP.
 XX
 AC AAI44415;
 XX
 DT 17-OCT-2001 (first entry)
 XX
 DE Probe #13101 used to measure gene expression in human placenta sample.
 XX
 KW Probe; microarray; human; placenta; antenatal diagnosis;
 KW genetic disorder; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200157272-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 30-JAN-2001; 2001MO-US00663.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0609408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR,
 XX
 PT WPI: 2001-488897/53.

XX Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human placenta -
 XX
 PS Claim 25; SEQ ID No 13101; 654pp; English.
 CC The present invention relates to single exon nucleic acid probes (SENP).
 CC The present sequence is one such probe. The probes are useful for
 CC producing a microarray for predicting, measuring and displaying gene
 CC expression in samples derived from human placenta. The probes are useful
 CC for antenatal diagnosis of human genetic disorders.
 SQ Sequence 577 BP; 105 A; 197 C; 164 G; 111 T; 0 other;
 Query Match 19.6%; Score 33; DB 22; Length 577;
 Best Local Similarity 54.5%; Pred. No. 2.4;
 Matches 66; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
 QY 11 TGGCCCTGGGAGTTCCCGGAGGTGGCCCGGAGCTGTGCTGAGACTCGGGAGC 70
 DB 234 TGACCTTGCTGTCTTTGCGGCGAGGTGGGAGCTGTGAGACTCAGGTCT 175
 QY 71 CATTGACCATGCTCTCTGAGATGAGACTGTGAGCGTCTGTGAAGTCTCAGGCA 130
 DB 174 CACCCGAGGAGTGAAGAGAGACTGTGAGTTCAAGGAGAGGCTCCGCTCAGCCA 115
 QY 131 G 131
 DB 114 G 114

RESULT 15
 AAT70377
 ID AAT70377 standard; cDNA; 3311 BP.
 XX
 AC AAT70377;
 XX
 DT 15-DEC-1997 (first entry)
 XX
 DE Cytohesin 1.
 XX
 KW Cytohesin 1; cytohesin 2; cytohesin PH; T-lymphocyte; wound healing;
 KW immune system; Pleckstrin; ss.
 XX
 OS Homo sapiens.
 XX
 PN EP763597-A2.
 XX
 PD 19-MAR-1997.
 XX
 PR 09-SEP-1996; 96EP-0114413.
 PR 14-SEP-1995; 95DE-4034120.
 XX
 PA (FARH) HOECHST AG.
 XX
 PI Kolanus W, Schiller B, Ostner B;
 XX
 DR WPI: 1997-167789/16.
 DR P-PSDB: AAM18782.
 XX
 PT Cytohesin-2 peptide and use of cytohesin PH peptide - for regulation
 of T-lymphocyte activation

xx Disclosure; Page 19-20; 30pp; German.

ps
xx
cc The cytohesin 2 peptide (AAW18783) can be used for regulation
cc of T-lymphocyte activation. Cytohesin 2 and cytohesin PH peptides
cc can be used to modulate inflammation, promote wound healing,
cc suppress the immune system, esp. during organ transplantation,
cc inhibit metastasis of hematopoietic tumours and treat
cc arteriosclerosis. Cytohesin PH peptides comprise at least part
cc of the cytohesin 1 sequence, esp. amino acids 258-398 (AAT70377).
cc The PH peptides are Pleckstrin homology domains found in several
cc proteins.

sq Sequence 3311 BP; 784 A; 820 C; 953 G; 754 T; 0 other;

Query Match 19.6%; Score 33; DB 18; Length 3311;

Best Local Similarity 52.6%; Pred. No. 3.5;

Matches 72; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

QY 30 GGCAGGTGGCCCGCCGAGCTGTGCTGAGACTCGGGAGCCCAATGACCATGCTCTGA 89
DB 1927 GGGCAGAGGCCCAAGTGAAGCTCAAGCGACAGTCAAGTGGGGCTGCTGCTGCG 1986
QY 90 GGATGAGACTGTGTGAGCGGTGTCTGAAAGTTCAGGACAGAGTATPAACATCCCAAG 149
DB 1987 GGTGCGAGTGGGAGAGGTGAGTCCGGCATCTCCGGGATGCTTTCCATCCCAAG 2046
QY 150 GGTCCAGTGGCCCAAG 166
DB 2047 TGCTTGGAGGCCCAAG 2063

Search completed: March 30, 2003, 00:48:28
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